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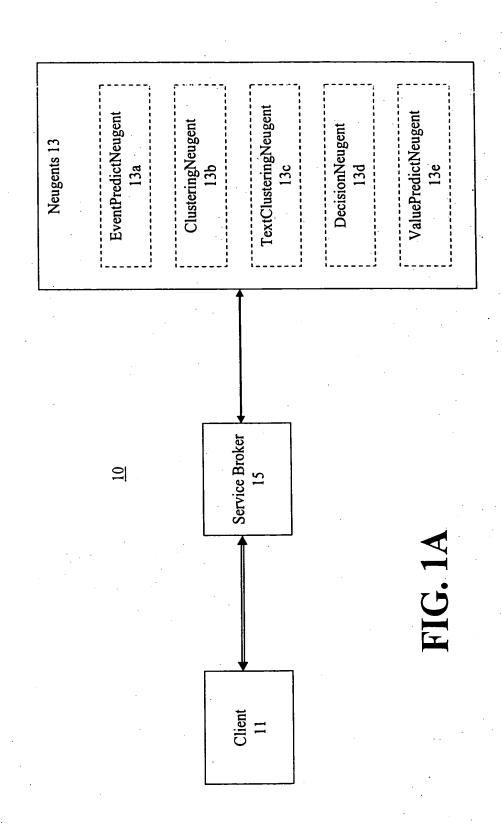
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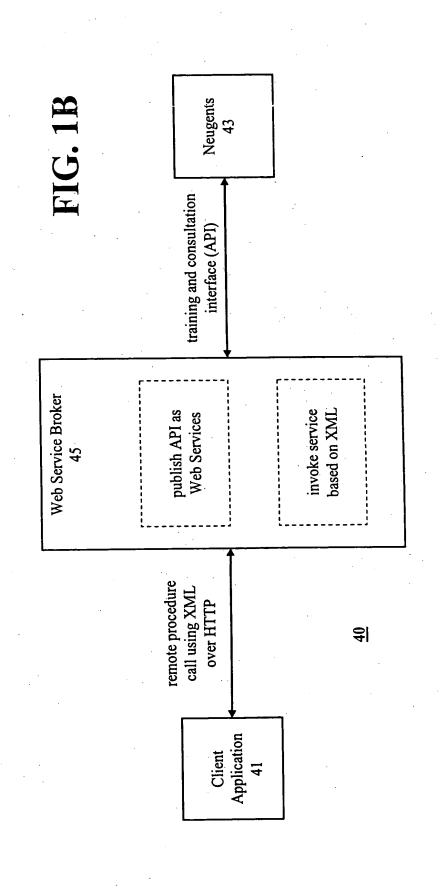
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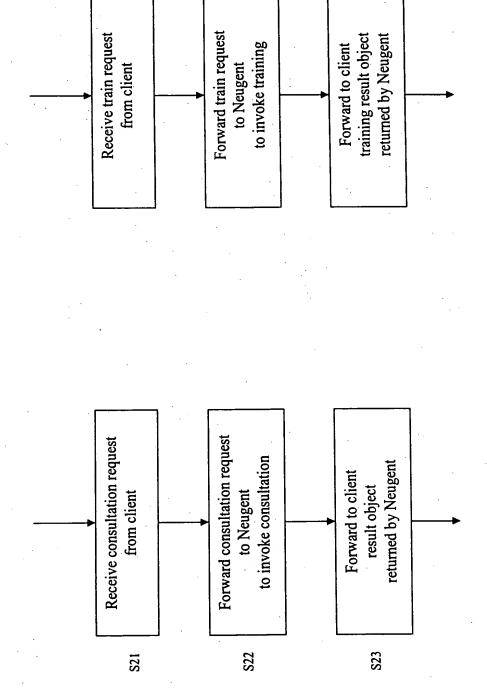
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G. 2A



S27

S28

S26

FIG. 2B

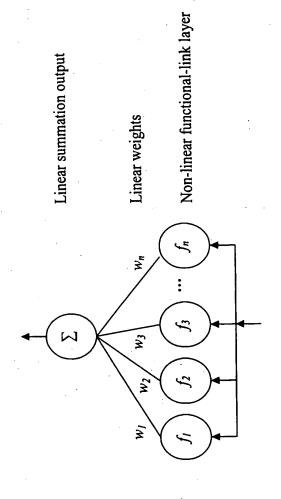
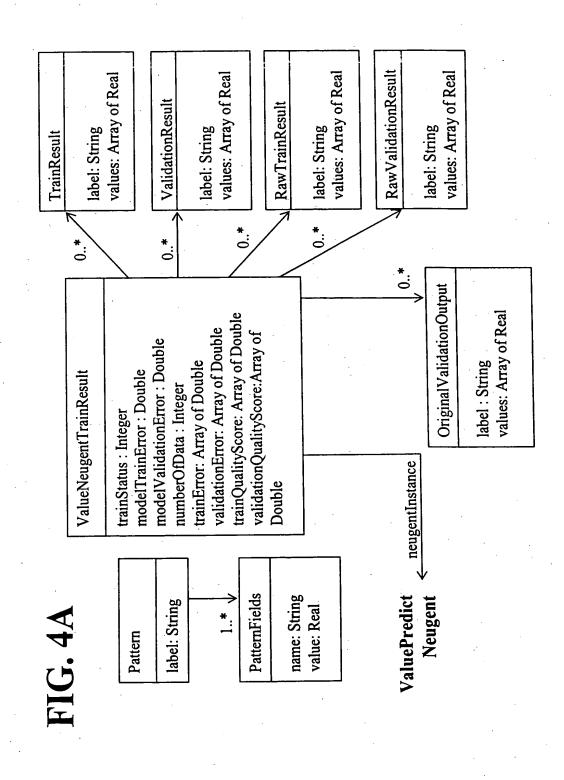
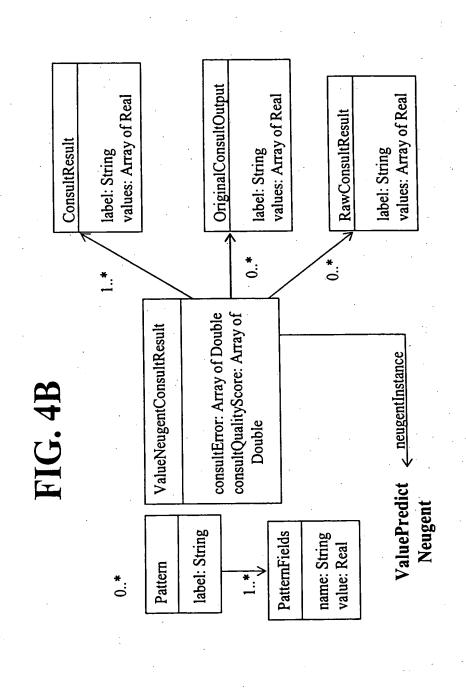
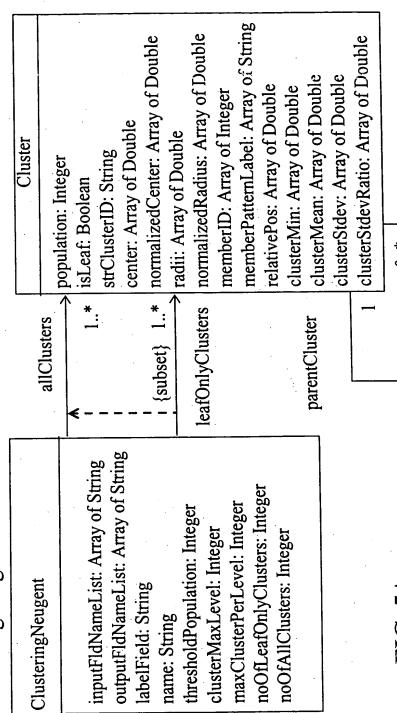


FIG. 3





ClusteringNeugent



childClusters

EventPredictNeugent

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inputFldNameList: Array of String labelField: String

labelField: Strin name: String

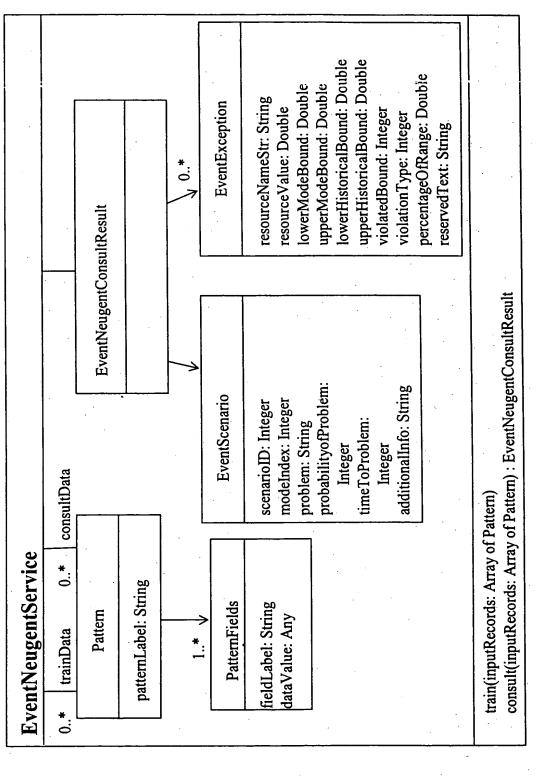
rules: Array of String

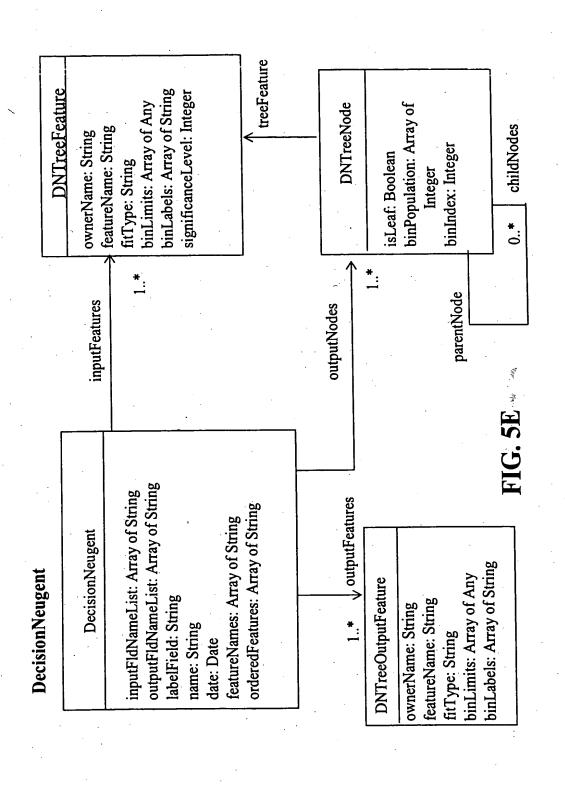
events: Array of String

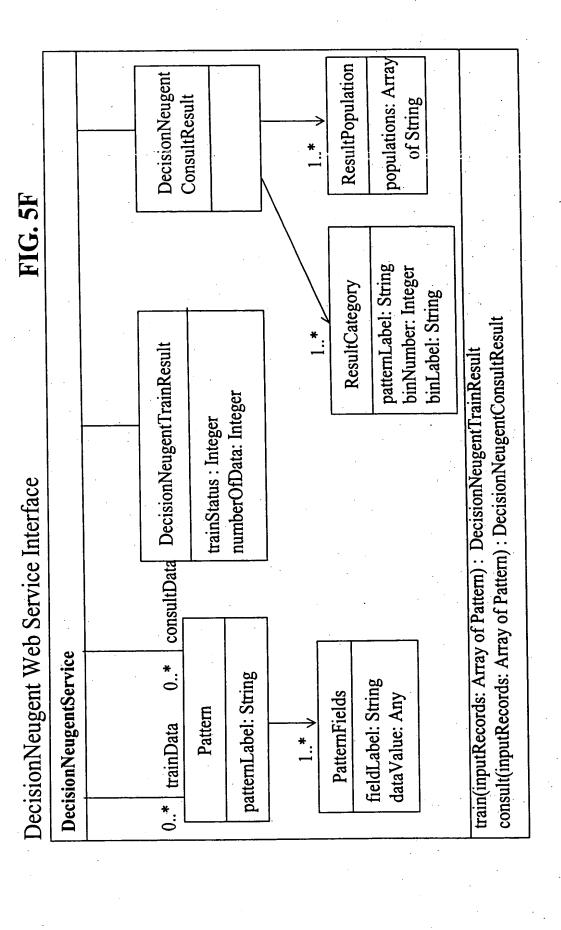
timeBand: Integer

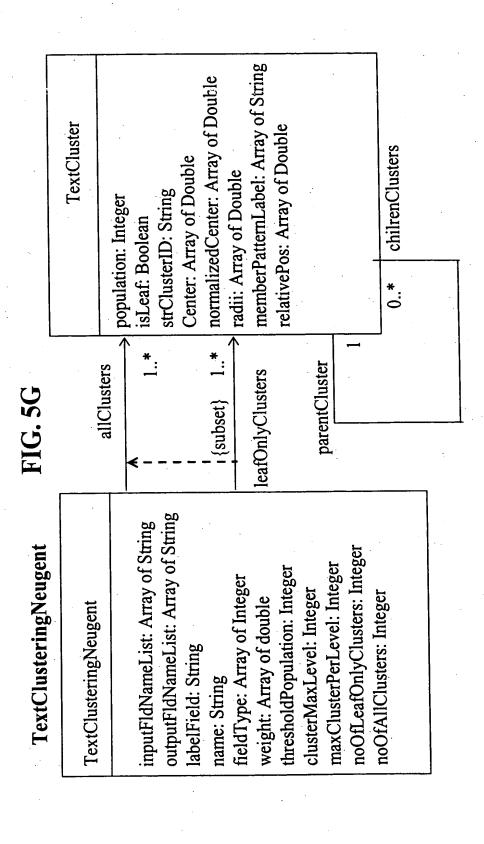
noOfDataGoingBack: Integer noOfDataPredict: Integer

FIG. 5C



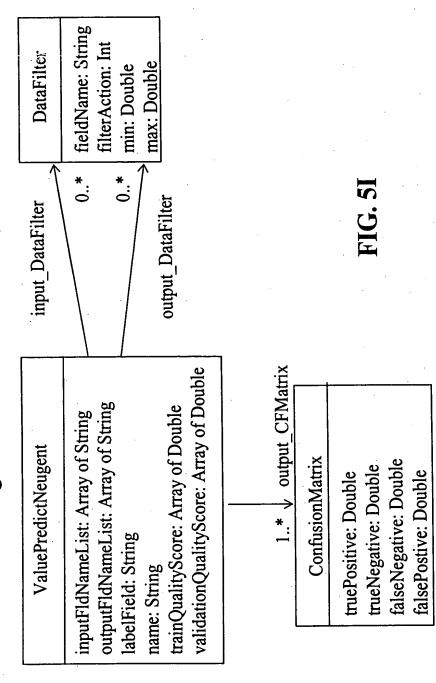


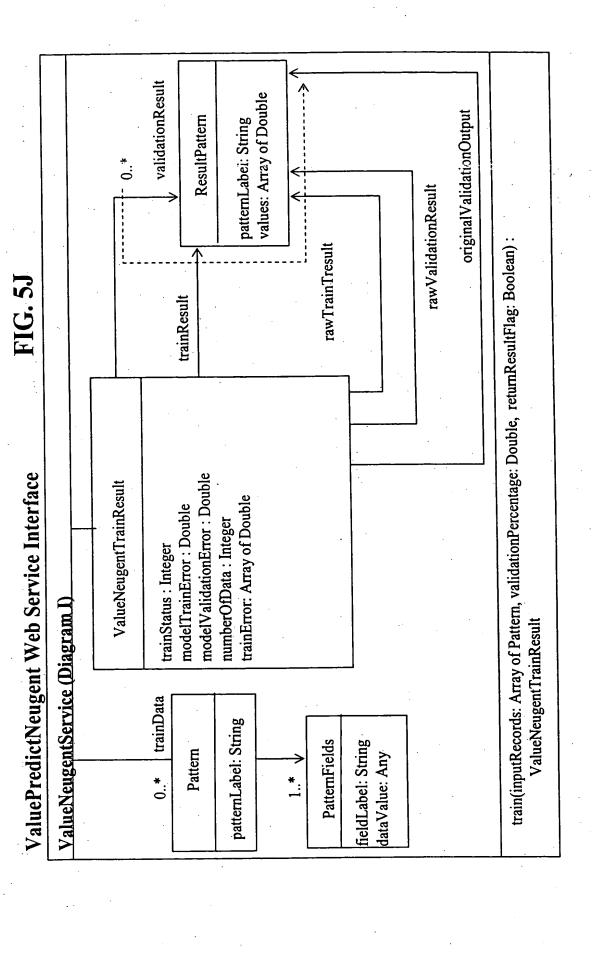




TextClusteringNeugentConsultResult patternLabels: Array of String strClusterIds: Array of String relativePos: Array of Double FIG. 5H **TextClusteringNeugentTrainResult** consult(inputRecords: Array of Pattern): TextClusteringNeugentConsultResult NumberofLeafClusters: Integer numberofAllClusters: Integer train(inputRecords: Array of Pattern): ClusteringNeugentTrainResult TextClusteringNeugent Web Service Interface trainStatus: Integer consultData **TextClusteringNeugentService** *:0 patternLabel: String fieldLabel: String **PatternFields** dataValue: Any Pattern trainData *:0

ValuePredictNeugent





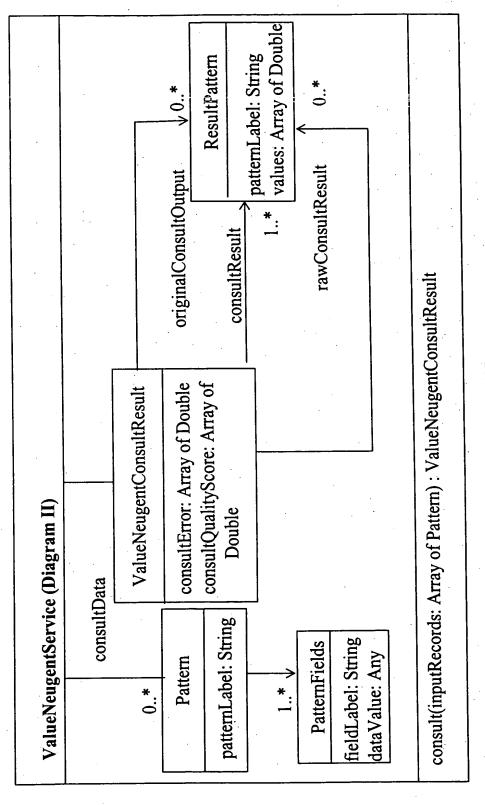
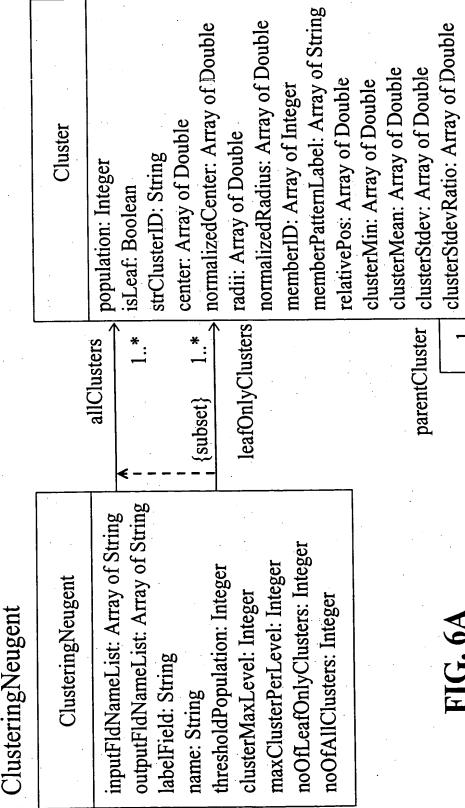


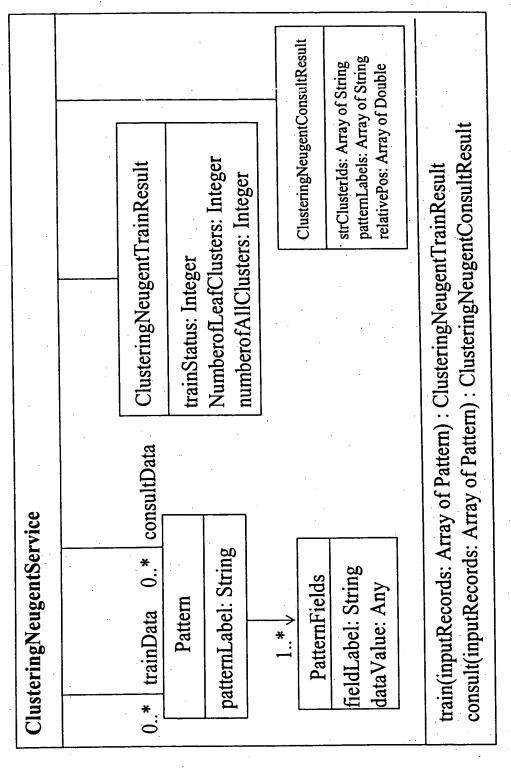
FIG. 5K



childClusters

*:

ClusteringNeugent Web Service Interface



EventPredictNeugent

EventPredictNeugent

inputFldNameList: Array of String

labelField: String

name: String

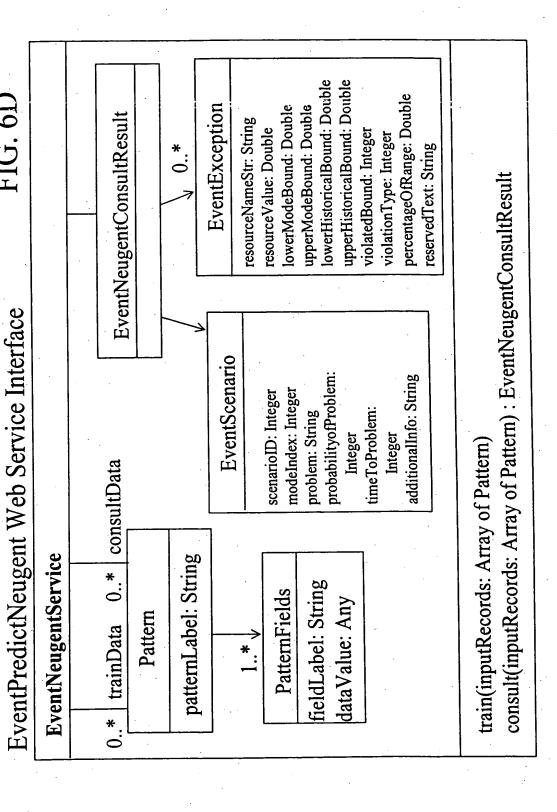
rules: Array of String

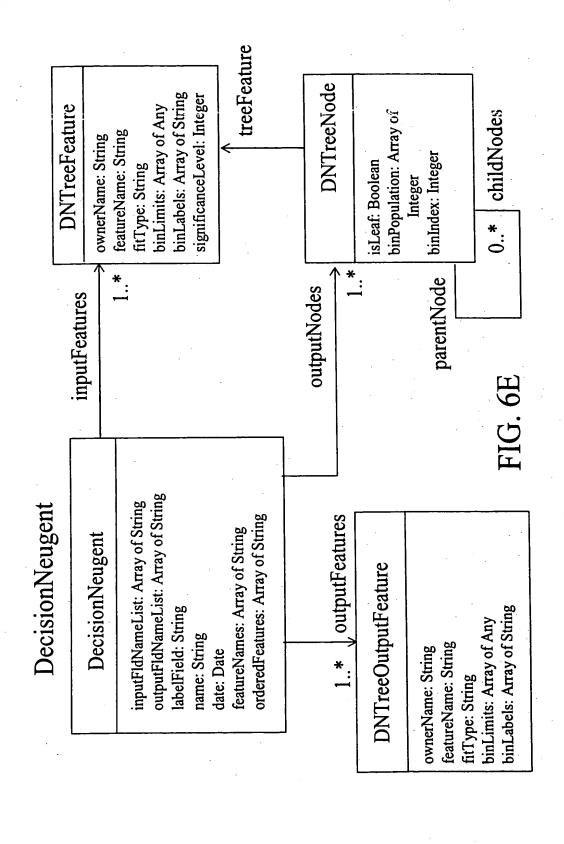
events: Array of String

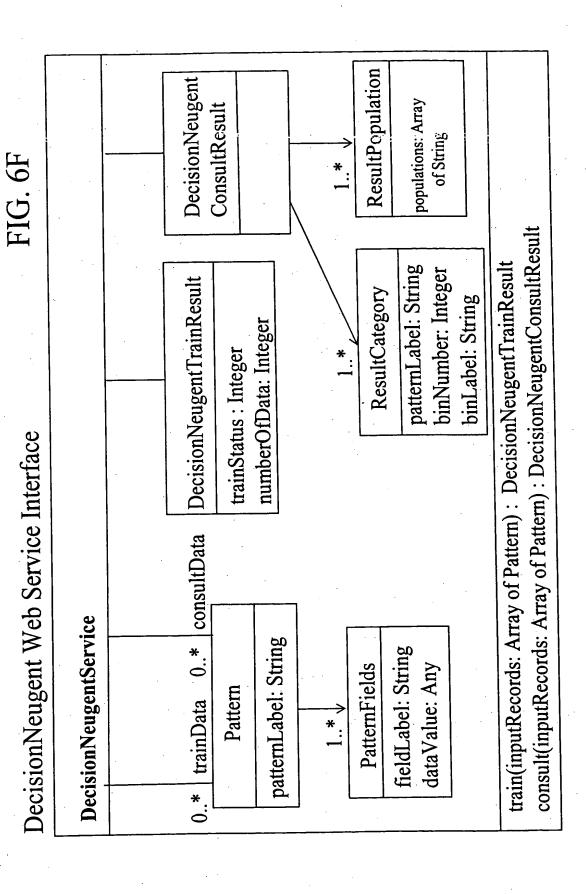
timeBand: Integer

noOfDataGoingBack: Integer noOfDataPredict: Integer

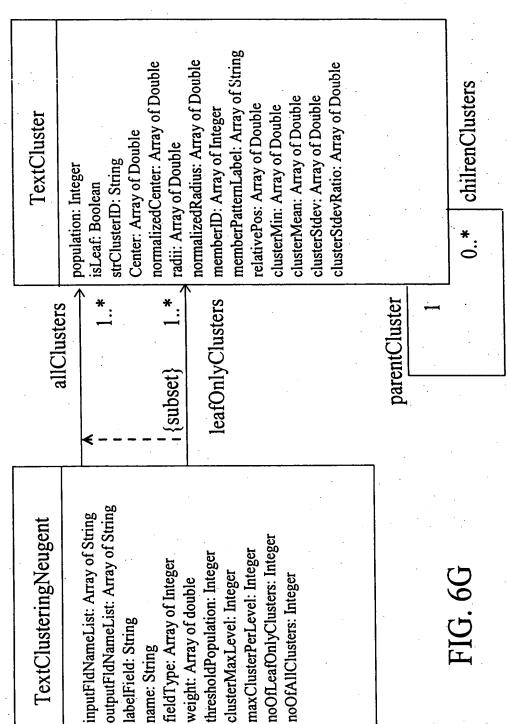
FIG. 6C

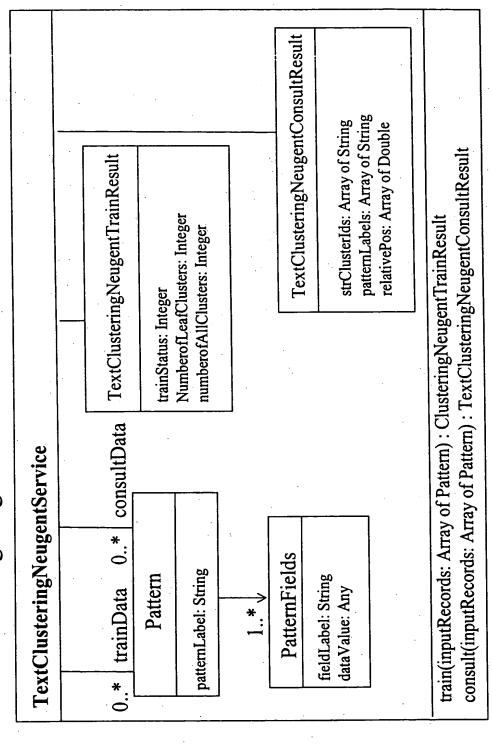






TextClusteringNeugent





fieldName: String

filterAction: Int

min: Double max: Double

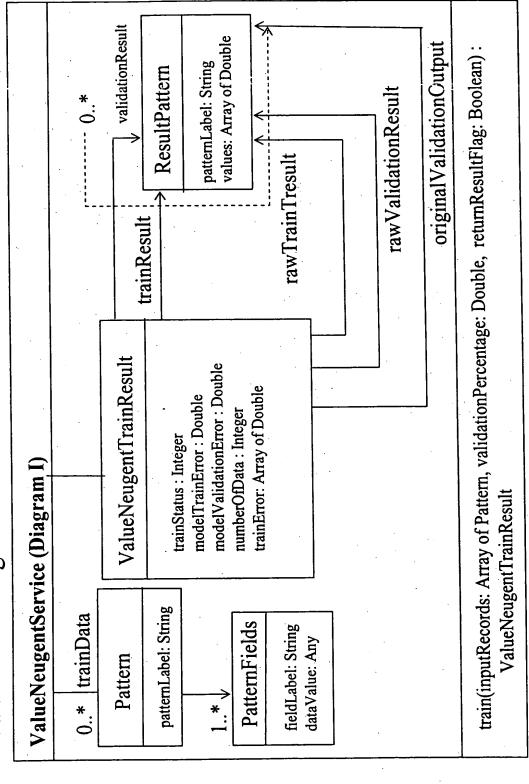
DataFilter

FIG. 61

truePositive: Double trueNegative: Double falseNegative: Double

falsePostive: Double

ValuePredictNeugent Web Service Interface



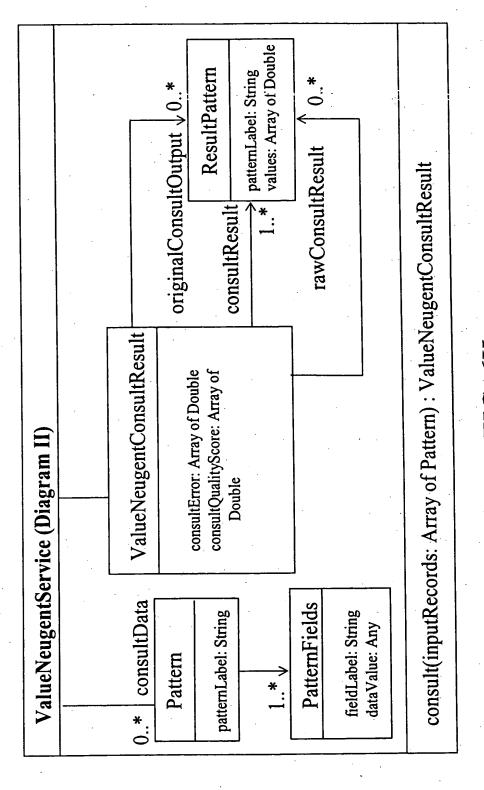


FIG. 6K

Clustering Neugent Web Service Interface

ClusteringNeugentConsultResult patternLabels: Array of String strClusterIds: Array of String relativePos: Array of Double FIG. 7A train(inputRecords: Array of Pattern): ClusteringNeugentTrainResult NumberofLeafClusters: Integer ClusteringNeugentTrainResult numberofAllClusters: Integer trainStatus: Integer consultData ClusteringNeugentService *:0 dataValue: Double patternLabel: String fieldLabel: String **PatternFields** trainData Pattern

consult(inputRecords: Array of Pattern) : ClusteringNeugentConsultResult

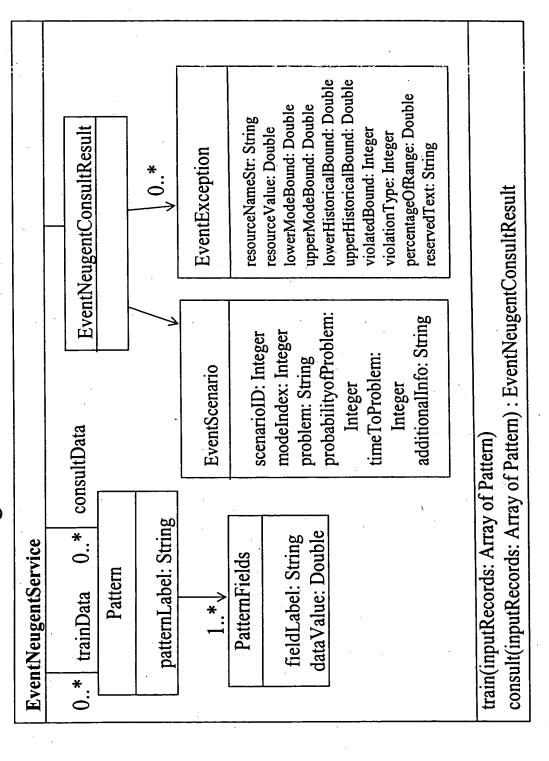
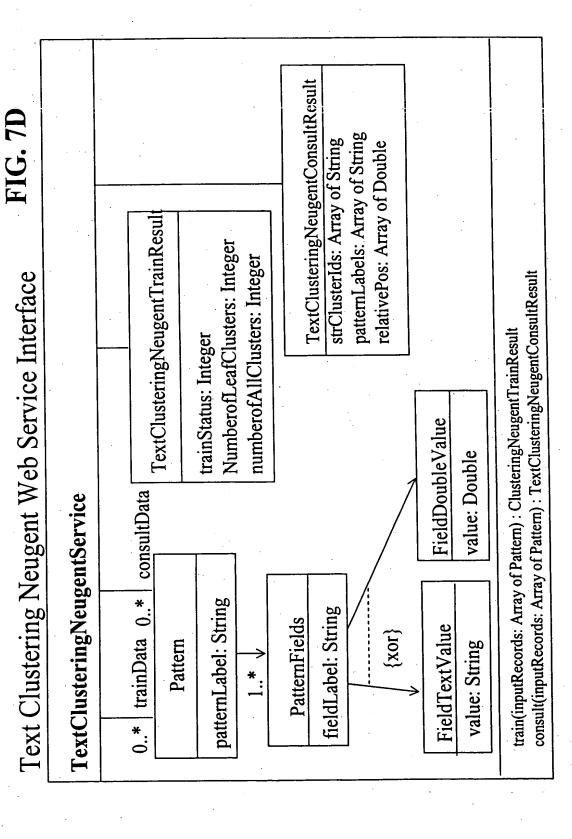


FIG. 7C



Value Predict Neugent Web Service Interface

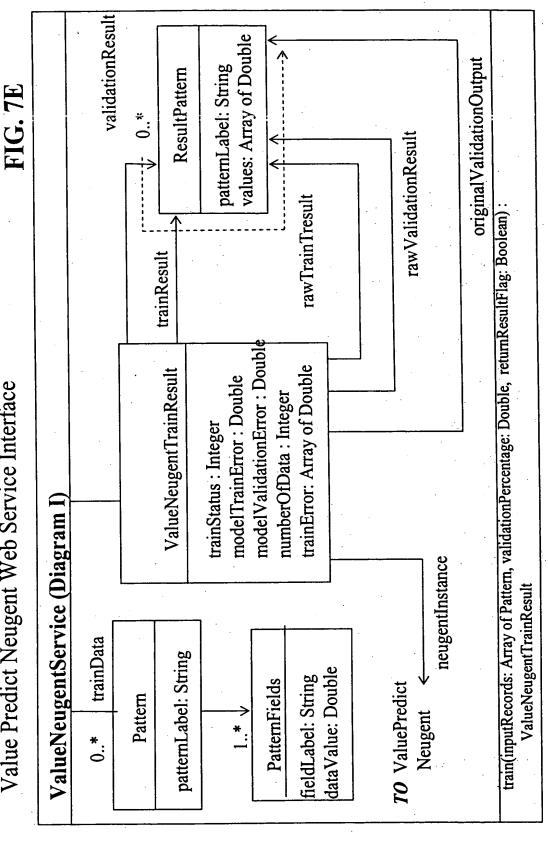
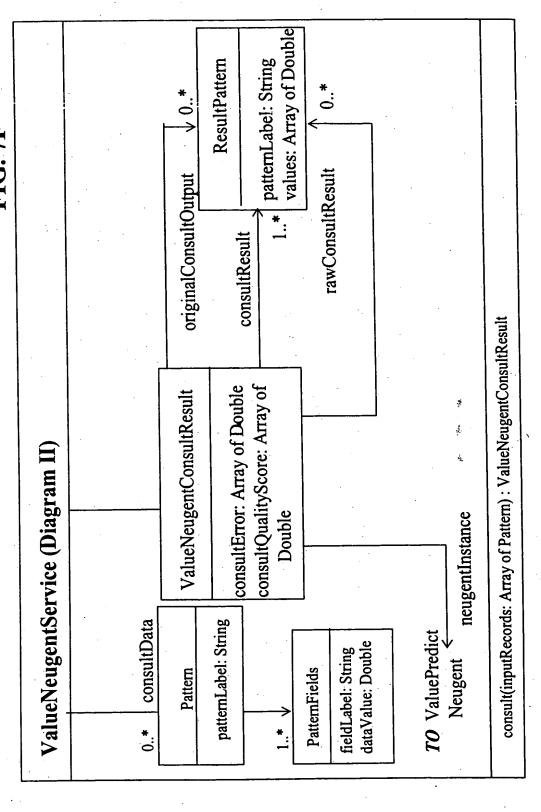
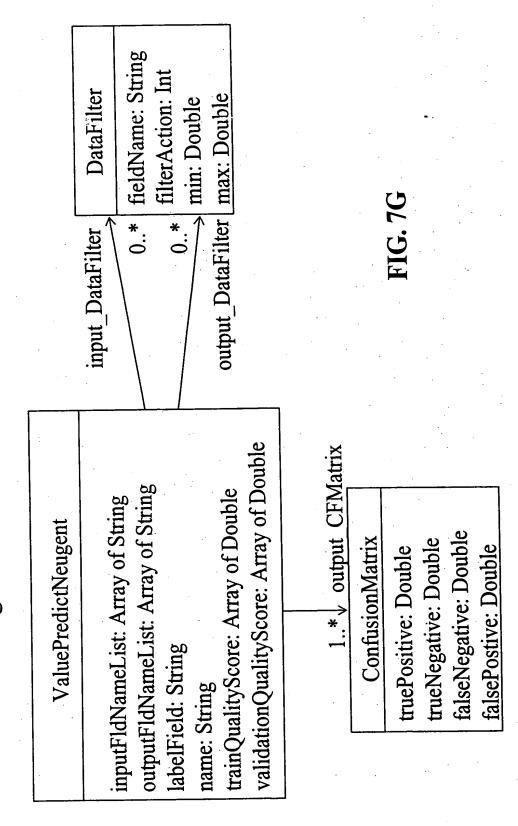
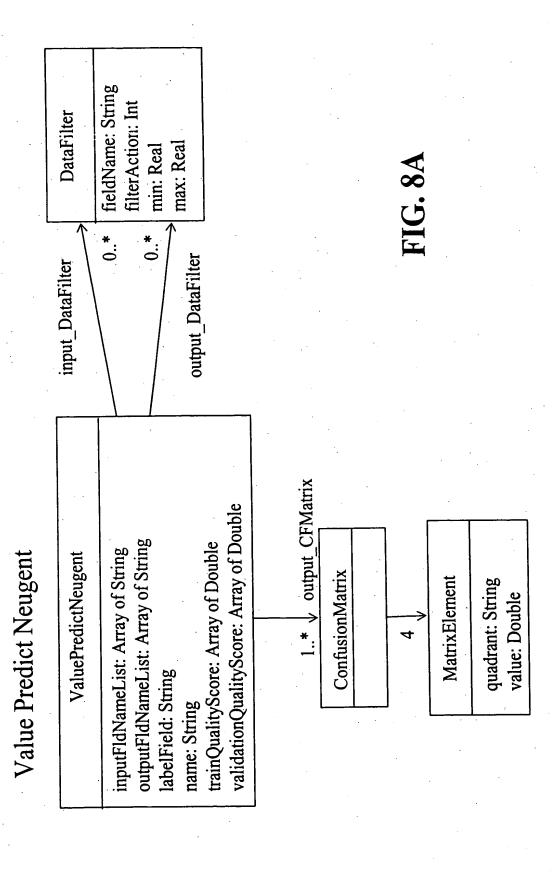


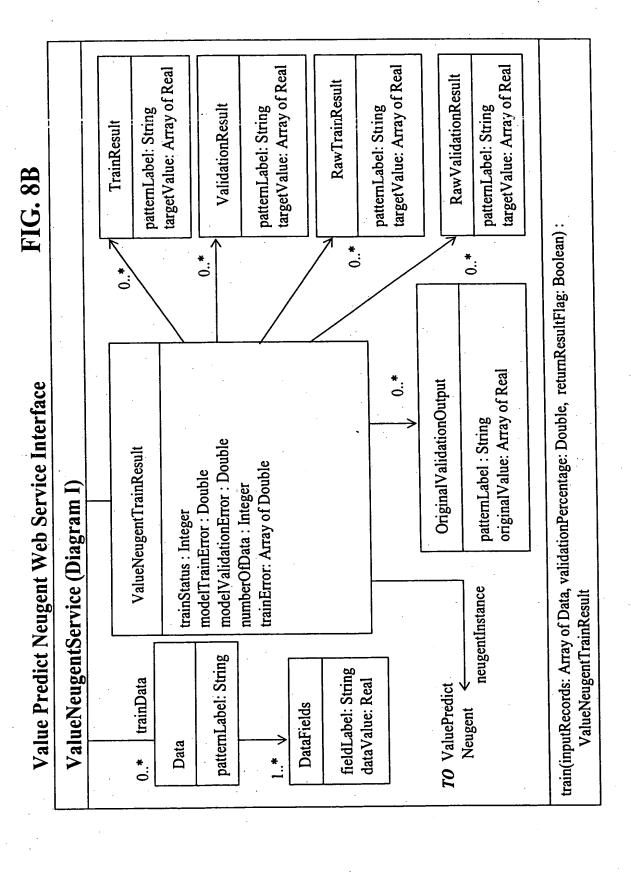
FIG. 7F

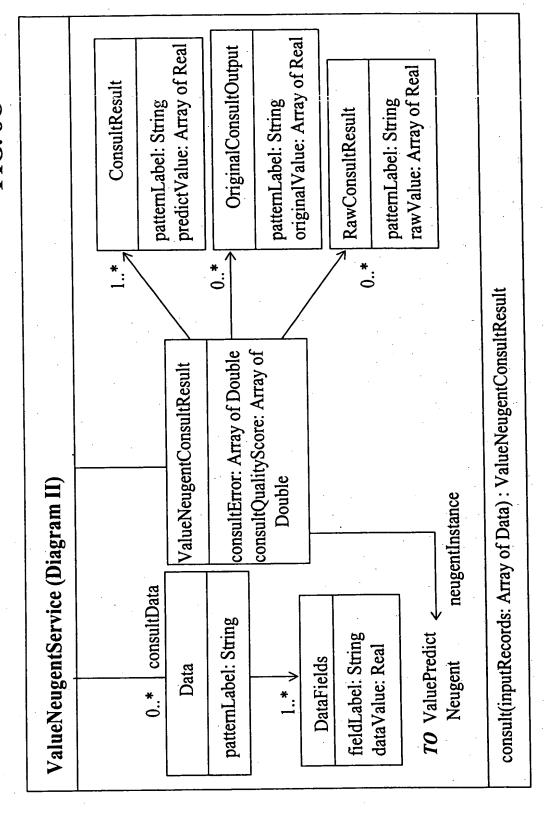


Value Predict Neugent









Event Predict Neugent

EventPredictNeugent

inputFldNameList: Array of String

labelField: String

name: String

rules: Array of String

events: String

timeBand: Integer

noOfDataGoingBack: Integer noOfDataPredict: Integer

FIG. 8D

lowerHistoricalBound: Real upperHistoricalBound: Real EventException percentageOfRange: Real resourceNameStr: String lowerModeBound: Real upperModeBound: Real violatedBound: Integer violationType: Integer reservedText: String resourceValue: Real EventNeugentConsultResult *:0 consult(inputRecords: Array of Data): EventNeugentConsultResult EventScenario Event Predict Neugent Web Service Interface probabilityofProblem: additionalInfo: String modeIndex: Integer scenarioID: Integer problem: String timeToProblem: Integer Integer consultData train(inputRecords: Array of Data) patternLabel: String **EventNeugentService** *: DataFields fieldLabel: String Data dataValue: Real trainData *:0

FIG. 8E

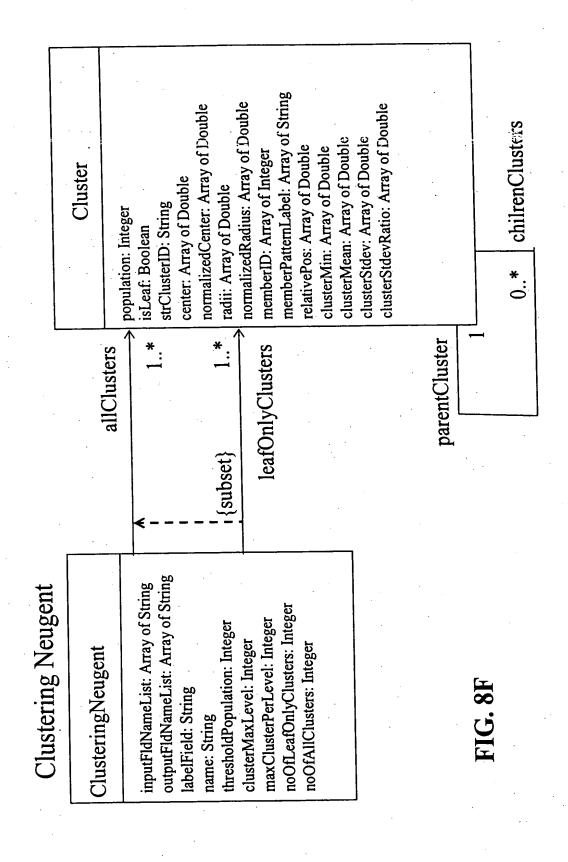


FIG. 8G

Clustering Neugent Web Service Interface

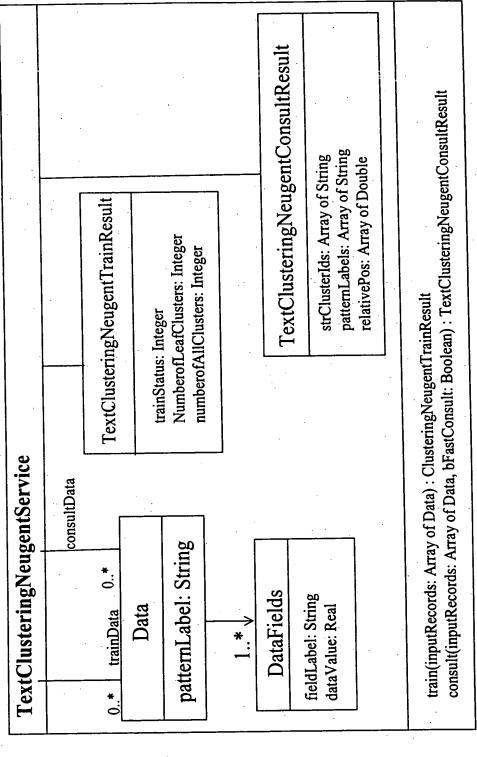
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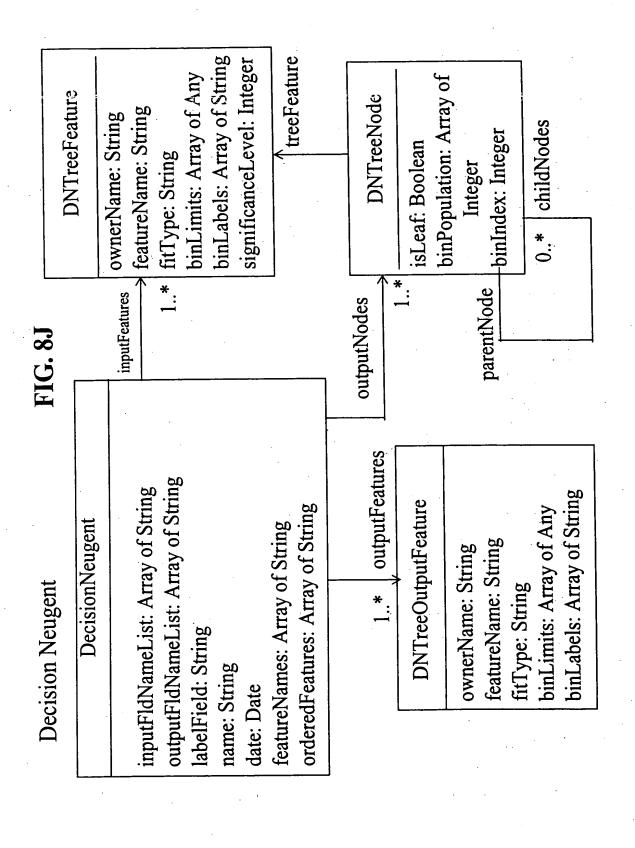
Teat Clustering reagent		
		TextCluster
TextClusteringNeugent	allClusters	nomilation. Integer
inputFldNameList: Array of String	*-	population: megal isLeaf: Boolean
outputFldNameList: Array of String		strClusterID: String
labelField: String		Center: Array of Double
name: String	{subset} 1*	normalizedCenter: Array of Double
fieldType: Array of Integer	100 foot Wingtors	radii: Array of Double
weight: Ariay of double thresholdPomilation: Integer	Ical Olli y Clusicis	
chisterMaxLevel: Integer	-	memberID: Array of Integer
maxClusterPerLevel: Integer		memberPatternLabel: Array of String
noOfLeafOnlyClusters: Integer		relativePos: Array of Double
noOfAllClusters: Integer		clusterMin: Array of Double
		clusterMean: Array of Double
	parentCluster	clusterStdev: Array of Double
		1 clusterStdevRatio: Array of Double

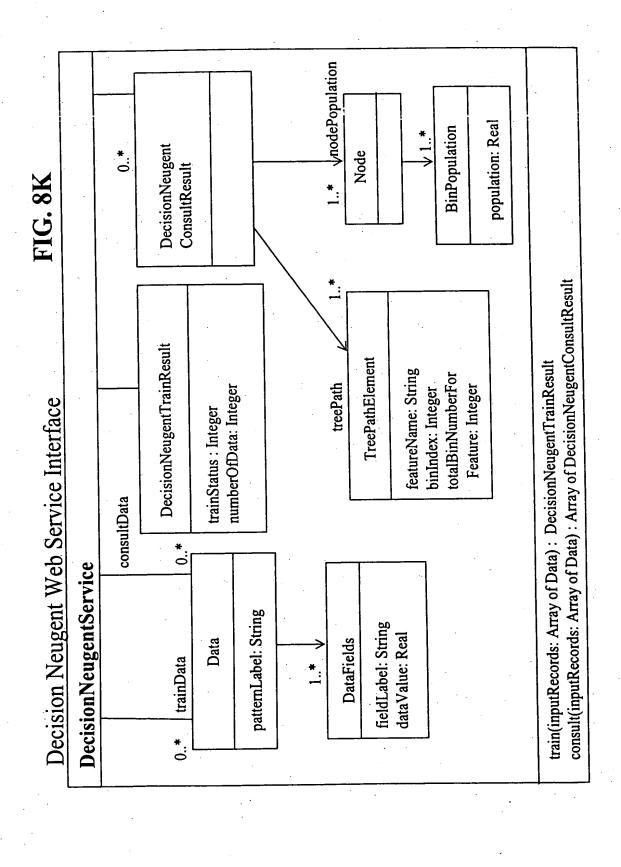
FIG. 8H

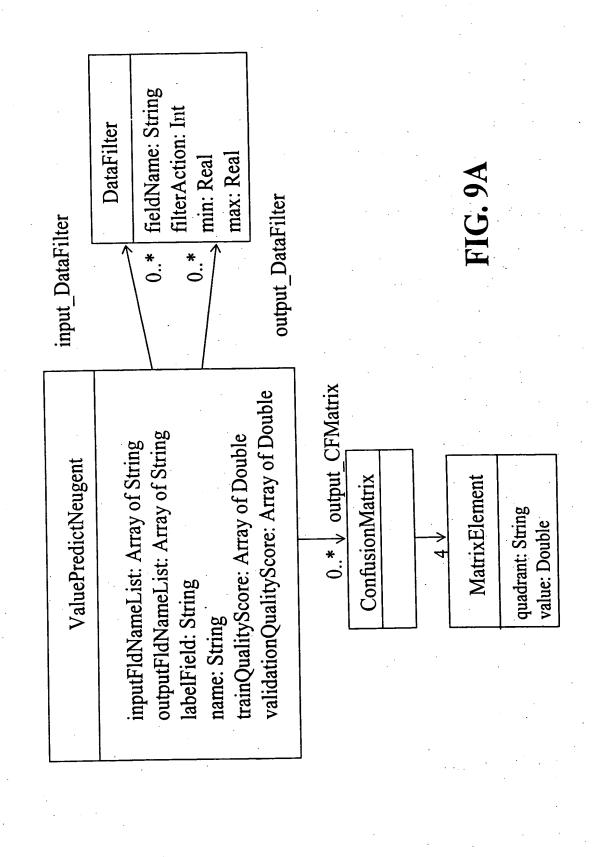
0.* chilrenClusters

Text Clustering Neugent Web Service Interface









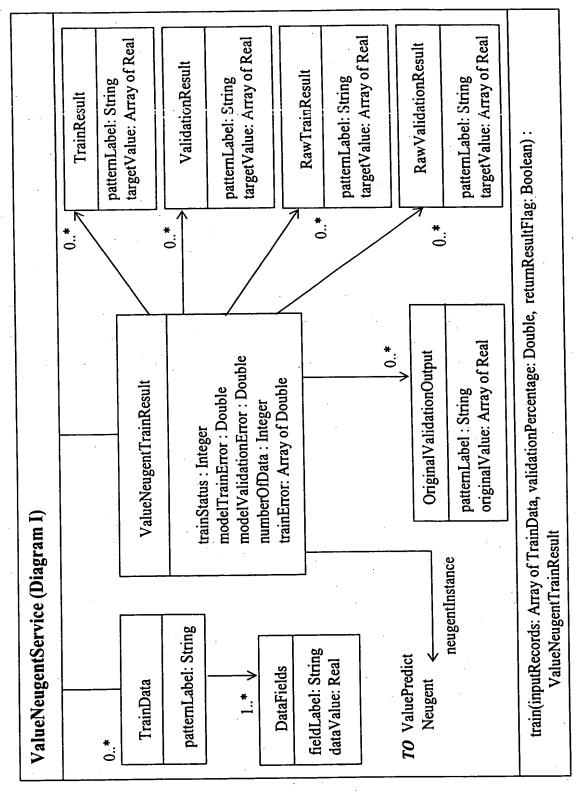
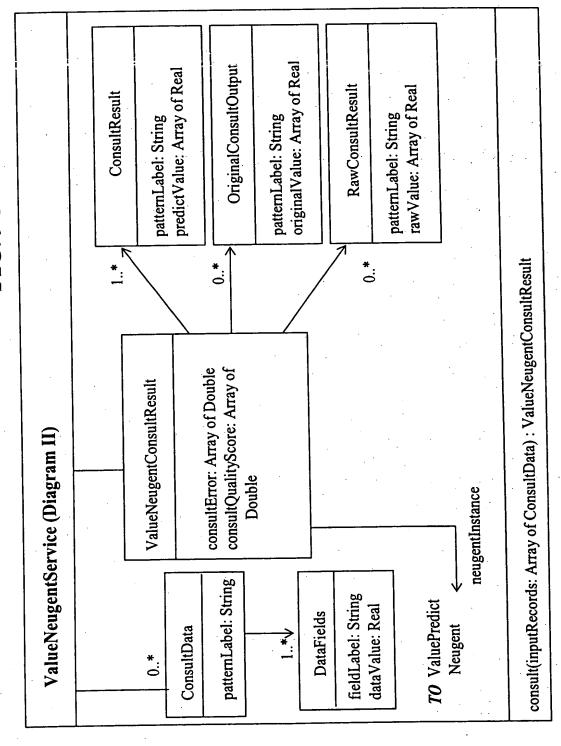
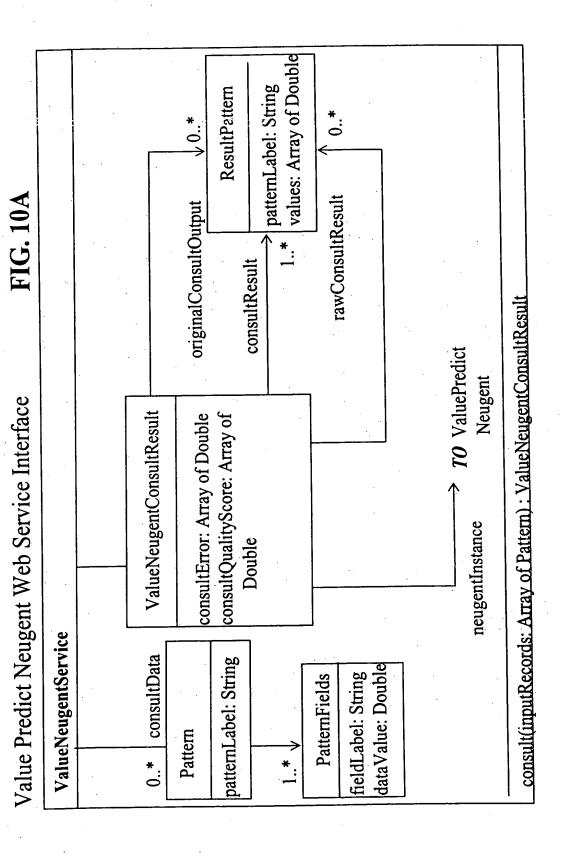
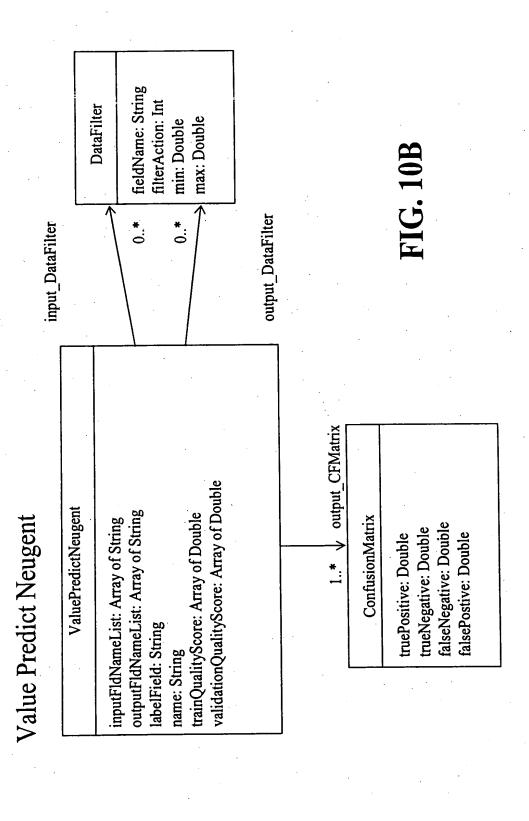
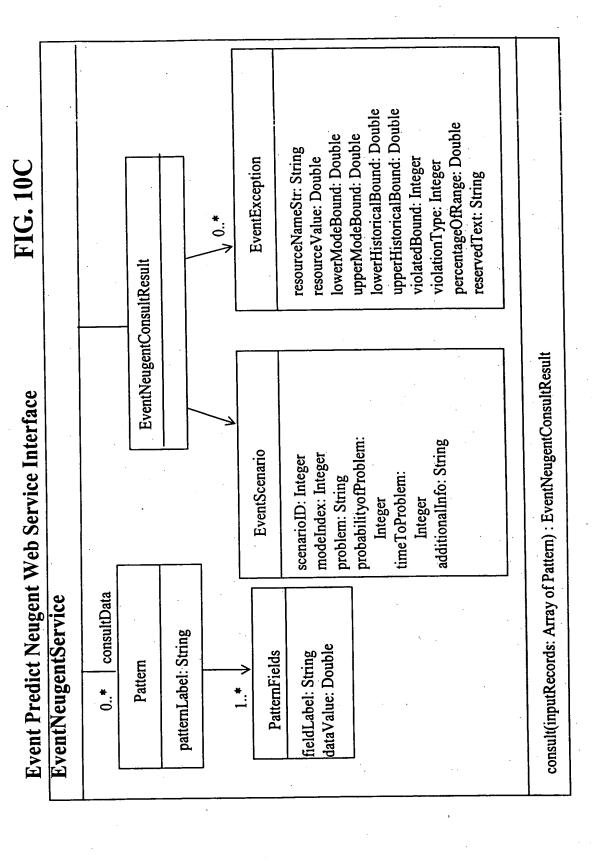


FIG. 9C

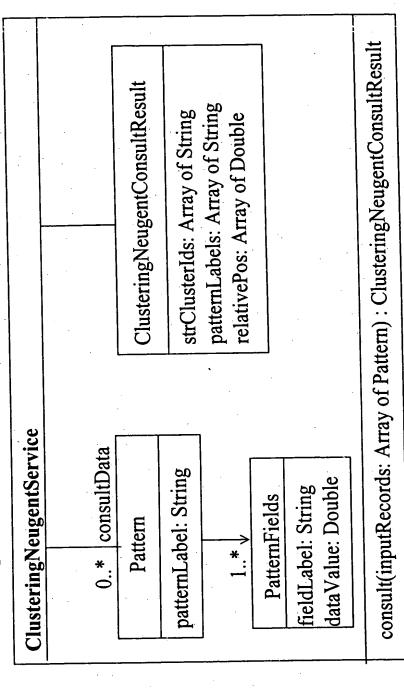








Clustering Neugent Web Service Interface



TextClusteringNeugentConsultResult pattemLabels: Array of String relativePos: Array of Double strClusterIds: Array of String consult(inputRecords: Array of Pattern): TextClusteringNeugentConsultResult Text Clustering Neugent Web Service Interface FieldDoubleValue value: Double consultData **TextClusteringNeugentService** patternLabel: String fieldLabel: String **PatternFields** Pattern {xor} FieldTextValue value: String

